

November, 2007

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# Biosolids Division Monthly Report

Submitted by:

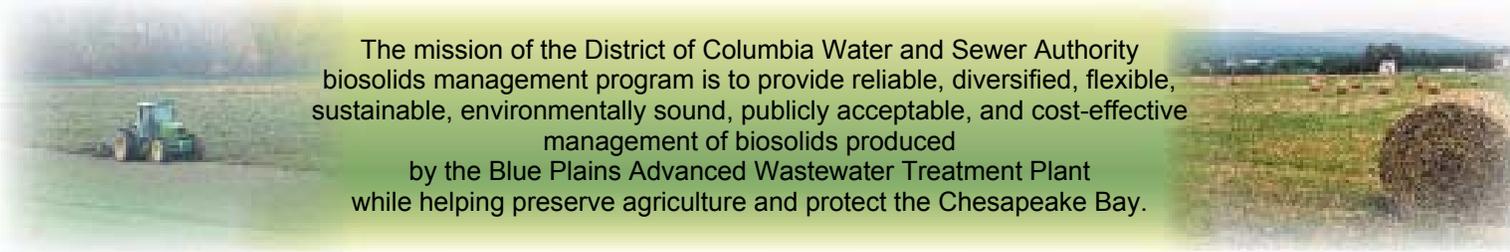
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## District of Columbia Water and Sewer Authority

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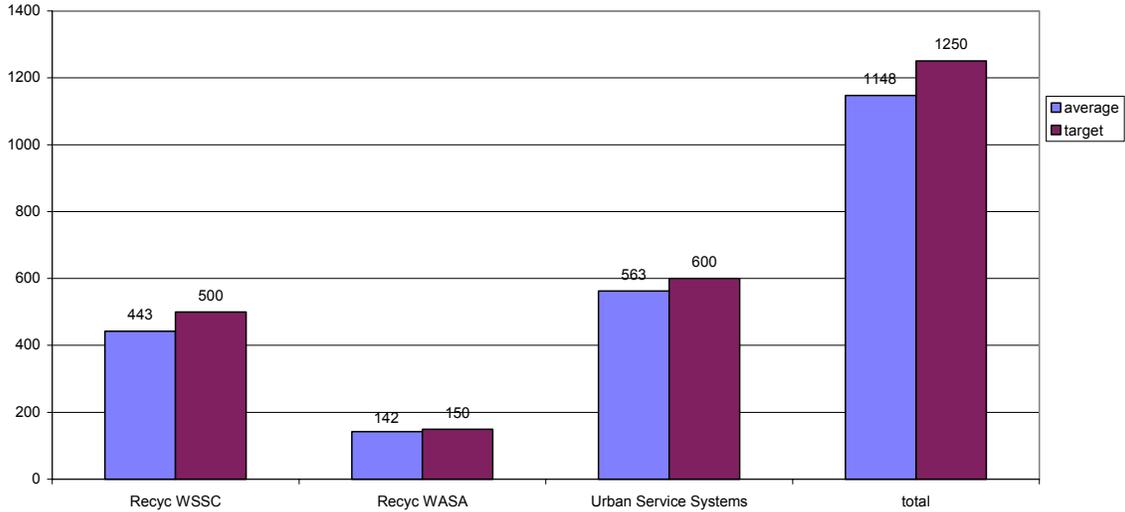
A wide-angle photograph of a rural agricultural landscape. In the foreground, a green tractor is working in a field. To the right, there are several large, round hay bales. The background shows rolling green hills under a clear sky.

The mission of the District of Columbia Water and Sewer Authority biosolids management program is to provide reliable, diversified, flexible, sustainable, environmentally sound, publicly acceptable, and cost-effective management of biosolids produced by the Blue Plains Advanced Wastewater Treatment Plant while helping preserve agriculture and protect the Chesapeake Bay.

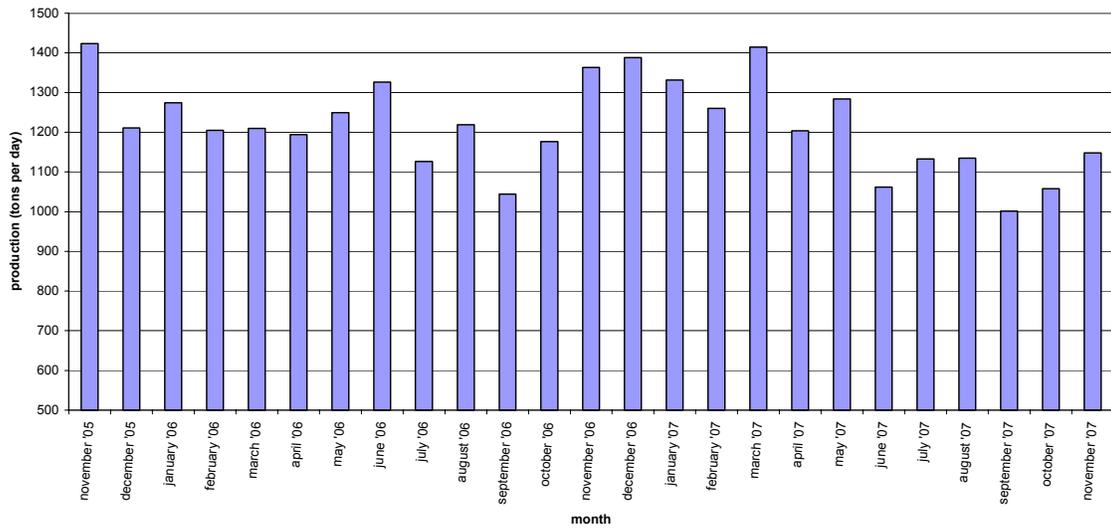
# November 2007 Blue Plains Biosolids Report

In November, biosolids hauling averaged 1148 wet tons per day. The graph below shows the hauling by contractor for the month of November. Average % solids was 27.45%, and average lime dose was 22.45%. A second graph shows average tons recycled per day for the last 24 months.

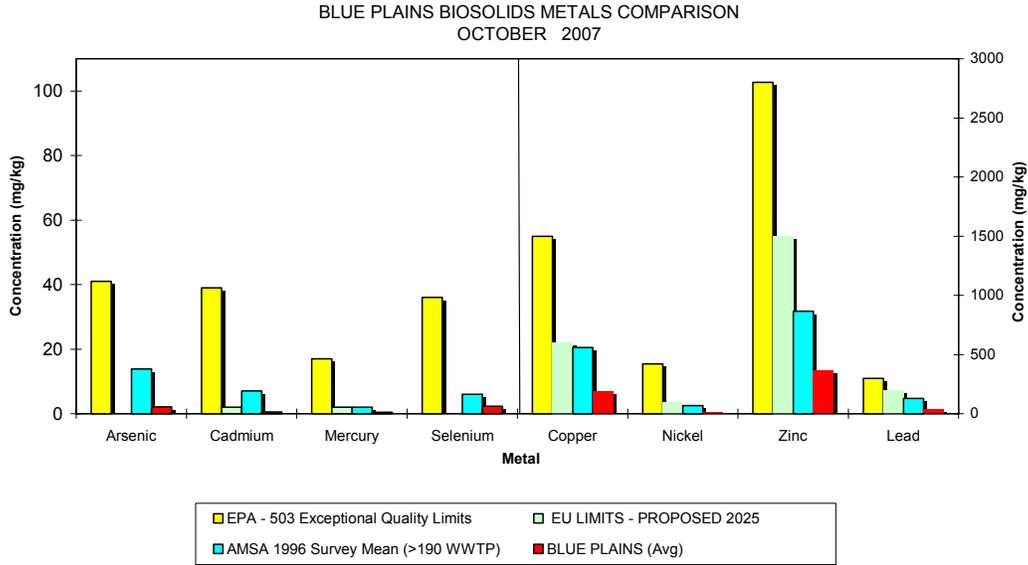
Average Daily Hauling by Contractor for November, 2007



Average Daily Biosolids Production



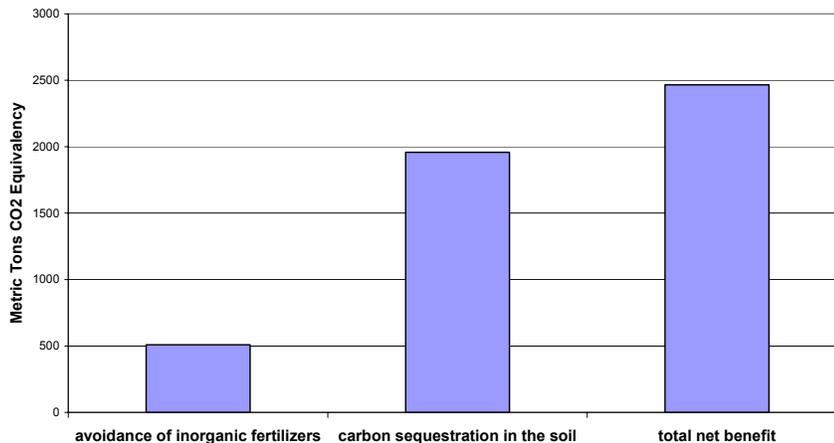
The graphs below show the EPA regulated heavy metals in the Blue Plains biosolids for the month of October 2007. As can be seen in the graphs, the Blue Plains levels are considerably below the regulated exceptional quality limits, the AMSA average levels surveyed in 1996, and even the proposed 2025 European Union (EU) limits.



### Environmental Benefits

In October of 2007 staff sent 30,615 wet tons of biosolids for reuse. No material came out of storage in October. No material went to landfills in October. The graph below shows the benefits as compared to landfilling all the biosolids in a non-energy recovering landfill. Taking into account the fuel required to transport biosolids to the field, the net benefit is 2466 metric tons CO<sub>2</sub> equivalent avoided emissions. The graph shows the benefit (carbon credit) of the sequestration, the energy savings due to avoiding conventional fertilizer use, and the total of the two. This is equivalent to taking 5,592,596 car miles off the road in the month of September (assumes 20 mpg, 19.4 lb CO<sub>2</sub> emissions/gallon gas – EPA estimate).

**DCWASA Biosolids Recycling Program  
Greenhouse Gas Balance Benefits  
October 2007 Hauling Totals**



## HIGHLIGHTS

Staff met with other generators, land appliers, regulators, inspectors, and others at the annual Mid Atlantic Biosolids Association meeting in Baltimore. The meeting included a day long technical seminar, with speakers on a variety of subjects. WASA staff and representatives spoke on the subjects of the WERF Fecal Reactivation Study, the WERF Rapid Response Protocol project, and the DCWASA digester planning process. All slide presentations were well received.

Staff attended the annual VACO meeting with the DCWASA biosolids information booth. Staff met with several county politicians and made contact with some that had questions about the biosolids recycling process.

Staff coordinated a presentation by a company promoting the use its gasification process as a means of converting biosolids to energy. The firm has facilities in operation currently for animal manures, and is looking to build a facility for biosolids in the near future. Several are in the planning stages.

Staff attended and participated in a meeting of the full VA DEQ biosolids expert panel in Richmond. Staff is on the panel as a representative of the generators that land apply in Virginia. The panel discussed a means of gathering information from those claiming ill effects from land application of biosolids, along with information that will be captured in the panel's first report, due in December 2007. The panel will continue to meet over the year, with a final report due in November 2008.

## Map of Blue Plains Biosolids Applications and Agricultural \$'s for October 2007

